

Mineral Industry Surveys

For information, contact:

Valentin V. Tepordei, Crushed Stone Specialist
U.S. Geological Survey
983 National Center
Reston, VA 20192
Telephone: (703) 648-7728, Fax: (703) 648-7975
E-mail: vtepordei@usgs.gov

Feri Naghdi (Data)

Telephone: (703) 648-7981, Fax: (703) 648-7975

Nick Muniz (Data)

Telephone: (703) 648-7980, Fax: (703) 648-7792

MINES FaxBack: (703) 648-4999

Internet: <http://minerals.usgs.gov/minerals>

CRUSHED STONE AND SAND AND GRAVEL IN THE THIRD QUARTER 2000

The estimated output of *crushed stone* produced and shipped for consumption in the third quarter of 2000 was 451 million metric tons, an increase of only 0.8% compared with the same period of 1999. The estimated output of *construction sand and gravel* produced and shipped for consumption in the third quarter of 2000 was 341 million metric tons, an increase of 1.6% compared with the same period of 1999.

These estimates are based on the information reported to the U.S. Geological Survey quarterly sample survey by the *crushed stone* and *sand and gravel* producers.

The production of *crushed stone* and *construction sand and gravel* increased slightly during this quarter, only 0.8% and 1.6% respectively, indicating a slowdown in the demand for aggregates in the private and commercial sectors of the construction industry. The allocation process of Federal funds for highway projects improved in most States this quarter. In the third quarter of 2000, there was also an increase of 1.9% in portland cement consumption, compared with the same period of 1999.

The estimated output of *crushed stone* produced for consumption in the first 9 months of 2000 was 1,167 million metric tons, an increase of 3.1% compared with the same period of 1999. The estimated output of *construction sand and gravel* produced for consumption in the first 9 months of 2000 was 860 million metric tons, an increase of 4.1% compared with the same period of 1999.

The portland cement consumption for the first 9 months of 2000 increased by 3.7%, compared with the same period of 1999, indicating a good correlation with the growth shown by the consumption of construction aggregates.

The quarterly survey is a sample survey that generates production estimates by quarters for each State, except Alaska and Hawaii, and each geographic division, based on information reported voluntarily by a limited number of producing companies. Occasionally, the number of companies reporting in an area varies from quarter to quarter, or previously reported data by some companies are revised. As a result of such changes in the size or the composition of the statistical sample, the estimated quantities for prior quarters are recalculated. The latest release of the quarterly Mineral Industry Surveys contains the most recent estimated totals and percentage changes and supersedes previously

published similar information.

The production estimates for *crushed stone* and *sand and gravel* are generated independently for each State and geographic division, which are treated as separate statistical sample areas. Therefore, some differences may exist between the total for a geographic division and the sum of State totals that are part of the same geographic division.

The leading geographic divisions in the production of *crushed stone* in the third quarter of 2000 were the South Atlantic with 101 million metric tons, or 22.4% of the U.S. total, followed by the East North Central with 92.6 million metric tons, or 20.5%, and the Middle Atlantic with 53.4 million metric tons, or 11.8%.

For *construction sand and gravel*, the leading geographic divisions were the East North Central with 70 million metric tons, or 20.5% of the U.S. total, followed by the Pacific with 65.1 million metric tons, or 19.1%, and the Mountain with 58.6 million metric tons, or 17.2%. The estimated totals by quarters for the geographic divisions do not include Alaska and Hawaii.

The five leading States in the production of *crushed stone* in the third quarter of 2000 were Texas, Pennsylvania, Ohio, Florida, and Illinois. Their combined total production represented 29.7% of the U.S. total.

The five leading States in the production of *construction sand and gravel* in the third quarter of 2000 were California, Texas, Michigan, Minnesota, and Ohio. Their combined total production represented 38.3% of the U.S. total.

A total of 345 *crushed stone* and *construction sand and gravel* companies and subsidiaries reported production information to the third quarter sample survey. The large participation of the producing companies in this survey is reflected by the high percentage coverage obtained for most geographic divisions and States. The percentage coverage indicates how much of the estimated total production for a State or a geographic division was actually reported by companies participating in this survey.

The percent changes between the estimated production for the current quarter and the same quarter of the prior year included in this report are important indicators of the production/consumption trends occurring in a particular area of the country.

TABLE 1
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/

(Thousand metric tons and thousand dollars)

Region/Division	1999				2000							
	Quantity			Value total 2/	Quantity 1st qtr.	Per- cent change 3/	Quantity 2nd qtr.	Per- cent change 3/	Quantity 3rd qtr.	Per- cent change 3/	Percent cover- age	Number of cos. 4/
	3rd qtr.	4th qtr.	Total 2/									
Northeast:												
New England	11,600	9,400	34,500	226,000	3,300	9.3	10,800	3.1	12,200	5.3	46	17
Middle Atlantic	53,900	41,500	164,000	918,000	21,700	6.4	46,900	-2.0	53,400	-0.9	60	35
Midwest:												
East North Central	90,700	79,500	286,000	1,270,000	38,100	9.1	82,300	1.2	92,600	2.1	68	43
West North Central	51,500	43,200	166,000	814,000	30,300	10.3	47,900	10.2	48,800	-5.4	55	39
South:												
South Atlantic	98,300	92,900	366,000	2,140,000	81,900	6.2	103,000	5.1	101,000	2.5	83	52
East South Central	50,200	44,200	173,000	1,070,000	34,800	9.6	44,600	-4.8	47,000	-6.4	70	18
West South Central	46,500	42,900	176,000	739,000	46,000	9.0	50,200	12.8	52,200	12.2	64	28
West:												
Mountain	16,400	13,100	56,400	295,000	11,800	-1.6	15,800	5.4	14,700	-10.2	48	23
Pacific 5/	28,500	27,200	104,000	646,000	20,500	-1.7	26,700	-1.6	29,600	3.8	41	25
Total 2/	448,000	394,000	1,540,000 6/	8,240,000 6/	288,000	6.9	428,000	3.3	451,000	0.8	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by divisions.

3/ All percentage changes are calculated using unrounded totals.

4/ Number of companies reporting for the quarterly survey.

5/ Does not include Alaska and Hawaii.

6/ Includes Alaska, Hawaii, and "Other" totals; see Table 2, footnote 6.

TABLE 2
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	1999				2000							
	Quantity			Value total 2/	Quantity 1st qtr.	Per- cent change 3/	Quantity 2nd qtr.	Per- cent change 3/	Quantity 3rd qtr.	Per- cent change 3/	Percent cover- age	Number of cos. 4/
	3rd qtr.	4th qtr.	Total 2/									
Alabama	13,700	12,200	49,400	358,000	12,200	13.0	13,300	4.6	13,500	(2.1)	76	12
Alaska 5/ 6/	--	--	1,800	9,900	--	--	--	--	--	--	--	--
Arizona 7/	--	--	9,010	54,100	--	--	--	--	--	--	--	--
Arkansas	8,700	7,800	30,700	145,000	6,800	9.0	7,800	(2.3)	9,400	8.5	62	10
California	17,100	16,300	60,300	388,000	11,700	3.2	15,400	(1.3)	16,700	(2.3)	48	14
Colorado	3,700	2,800	13,200	75,500	2,800	1.3	4,400	15.4	3,700	(1.0)	64	6
Connecticut	2,500	1,600	7,170	57,400	500	37.0	2,400	(10.5)	2,600	4.0	30	4
Delaware 5/	--	--	--	--	--	--	--	--	--	--	--	--
Florida	22,800	23,600	92,300	469,000	23,000	1.0	26,200	13.6	24,200	6.2	65	11
Georgia 6/	20,200	17,700	74,200	448,000	18,100	8.0	20,000	2.4	19,200	(4.7)	102	7
Hawaii 5/	--	--	5,870	55,500	--	--	--	--	--	--	--	--
Idaho	1,400	1,200	4,220	19,000	800	1.9	800	(8.6)	1,000	(29.9)	33	3
Illinois 6/	23,800	22,300	76,700	387,000	11,200	12.8	21,000	1.0	24,100	1.5	69	12
Indiana	19,100	15,300	59,500	273,000	9,100	8.1	16,400	(1.8)	19,400	1.5	76	13
Iowa	14,100	10,700	42,100	212,000	5,900	16.1	12,800	5.8	13,200	(6.2)	52	7
Kansas	6,400	6,100	23,600	116,000	5,200	0.0	6,400	10.6	6,500	1.2	61	9
Kentucky 6/	17,900	15,100	60,500	310,000	10,600	(4.0)	14,800	(10.1)	15,500	(13.5)	61	7
Louisiana 6/ 7/	--	--	--	--	--	--	--	--	--	--	--	--
Maine	1,300	900	3,990	23,900	500	(5.8)	1,300	3.7	1,400	1.0	57	4
Maryland 6/	6,300	6,400	22,200	121,000	4,200	18.7	6,800	12.9	6,900	10.1	108	9
Massachusetts	3,800	3,300	11,600	89,900	1,300	14.7	3,600	5.2	4,100	8.4	70	6
Michigan 6/	13,500	12,800	42,500	146,000	3,400	8.7	13,600	4.6	13,500	0.2	72	8
Minnesota 6/	5,300	3,700	13,400	65,700	900	24.8	4,100	10.3	4,500	(15.1)	61	5
Mississippi 6/ 7/	--	--	1,760	15,900	--	--	--	--	--	--	--	--
Missouri	21,600	19,600	73,400	349,000	16,100	12.0	21,100	18.8	20,700	(4.4)	50	16
Montana 7/	--	--	3,440	13,300	--	--	--	--	--	--	--	--
Nebraska	2,000	1,700	7,090	44,500	1,400	(1.2)	1,900	(3.2)	1,800	(8.5)	85	6
Nevada	2,300	1,600	7,090	37,900	1,200	0.3	1,900	(5.1)	1,900	(16.6)	34	4
New Hampshire 6/	1,400	1,400	4,290	19,700	300	(8.1)	1,300	10.6	1,500	3.5	57	4
New Jersey	7,100	6,800	24,500	160,000	3,600	(0.2)	6,400	(8.3)	7,800	10.4	55	7
New Mexico	1,000	600	3,720	22,200	800	(4.4)	1,100	(11.5)	1,000	0.4	42	4
New York	17,900	11,200	46,700	268,000	4,100	13.9	13,700	(1.7)	17,400	(3.2)	55	10
North Carolina	18,200	16,900	67,000	459,000	14,200	4.2	18,800	2.7	19,100	5.5	97	11
North Dakota 5/ 6/	--	--	--	--	--	--	--	--	--	--	--	--
Ohio	22,400	19,400	73,200	328,000	10,700	7.0	22,700	6.0	24,500	9.1	67	12
Oklahoma	9,300	8,500	36,300	145,000	8,100	(11.7)	9,800	4.2	10,000	8.3	77	11
Oregon	7,100	6,600	23,800	112,000	4,000	6.1	6,800	7.4	7,300	3.6	31	11
Pennsylvania	29,100	23,500	92,500	490,000	13,800	6.1	26,700	(0.7)	28,500	(2.1)	63	21
Rhode Island 5/	--	--	2,070	12,200	--	--	--	--	--	--	--	--
South Carolina	7,800	7,100	29,200	193,000	6,800	4.2	7,900	2.0	7,100	(9.0)	87	8
South Dakota	2,000	1,500	6,020	26,500	900	35.2	1,700	(9.1)	2,000	(1.1)	76	5
Tennessee	18,700	16,900	63,100	382,000	11,600	18.3	16,300	(7.7)	17,900	(4.0)	74	8
Texas	28,600	26,500	109,000	449,000	31,400	17.5	32,700	20.4	32,800	14.5	58	13
Utah	2,700	2,400	8,780	45,300	1,700	1.9	2,100	0.5	2,400	(12.2)	72	5
Vermont 7/	--	--	5,400	22,800	--	--	--	--	--	--	--	--
Virginia	17,900	17,900	66,400	389,000	12,900	7.2	18,500	(0.7)	19,600	9.6	70	13
Washington	4,000	4,100	19,500	146,000	4,900	(20.3)	4,500	(13.9)	5,800	44.3	31	5
West Virginia 6/	4,300	3,100	13,000	58,500	2,300	27.6	4,200	9.8	3,900	(8.6)	60	7
Wisconsin	12,200	9,900	34,500	137,000	3,300	7.0	8,200	(12.3)	11,000	(9.7)	46	8
Wyoming	1,800	1,600	6,970	27,600	1,600	(9.1)	1,900	11.0	1,500	(19.0)	76	5
Other	--	--	8,110	63,100	--	--	--	--	--	--	--	--
Total	XX	XX	1,540,000	8,240,000	XX	XX	XX	XX	XX	XX	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding and differences between projected totals by States.

3/ All percentage changes are calculated using unrounded totals.

4/ Number of companies reporting for the quarterly survey.

5/ State not included in quarterly survey.

6/ To avoid disclosing proprietary data, certain State totals do not include all kinds of stone produced within the State; the portion not shown has been included with "Other."

7/ Owing to a low number of reporting companies, no production estimates by quarters were generated.

TABLE 3
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/

(Thousand metric tons and thousand dollars)

Region/Division	1999				2000							
	Quantity			Value total 2/	Quantity 1st qtr.	Per- cent change 3/	Quantity 2nd qtr.	Per- cent change 3/	Quantity 3rd qtr.	Per- cent change 3/	Percent cover- age	Number of cos. 4/
	3rd qtr.	4th qtr.	Total 2/									
Northeast:												
New England	13,900	10,500	41,500	213,000	5,400	4.5	12,000	1.3	15,200	9.4	24	22
Middle Atlantic	22,800	15,000	65,000	359,000	8,800	6.8	19,600	3.0	22,900	0.4	26	24
Midwest:												
East North Central	73,400	57,500	222,000	903,000	28,800	7.1	63,600	-0.1	70,000	-4.7	41	46
West North Central	40,800	26,800	110,000	404,000	11,900	16.9	36,700	13.7	40,200	-1.4	23	32
South:												
South Atlantic	20,700	18,400	79,900	375,000	19,300	3.3	22,400	1.5	21,900	5.4	50	37
East South Central	15,000	9,900	46,900	213,000	9,200	3.8	13,400	2.5	12,500	-16.5	38	18
West South Central	30,200	28,300	115,000	549,000	31,100	14.2	33,700	14.6	35,100	16.2	31	14
West:												
Mountain	59,000	50,900	213,000	949,000	44,500	-8.5	61,200	11.5	58,600	-0.7	39	34
Pacific 5/	60,300	55,400	206,000	1,230,000	39,900	5.3	57,600	10.6	65,100	7.8	49	25
Total 2/	336,000	273,000	1,100,000 6/	5,250,000 6/	199,000	3.7	320,000	7.3	341,000	1.6	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding, and differences between projected totals by States and by divisions.

3/ All percentage changes are calculated using unrounded totals.

4/ Number of companies reporting for the quarterly survey.

5/ Does not include Alaska and Hawaii.

6/ Includes Alaska and Hawaii.

TABLE 4
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

(Thousand metric tons and thousand dollars)

State	1999				2000							
	Quantity			Value total 2/	Quantity 1st qtr.	Per- cent change 3/	Quantity 2nd qtr.	Per- cent change 3/	Quantity 3rd qtr.	Per- cent change 3/	Percent cover- age	Number of cos. 4/
	3rd qtr.	4th qtr.	Total 2/									
Alabama	4,200	3,700	15,500	68,900	3,600	4.1	4,400	8.3	4,000	(5.0)	42	8
Alaska 5/	--	--	9,620	48,500	--	--	--	--	--	--	--	--
Arizona	13,600	12,900	54,500	296,000	13,000	(5.9)	15,400	8.8	13,700	0.7	69	7
Arkansas	3,200	2,800	11,300	53,200	2,400	(0.7)	2,800	(1.5)	3,100	(3.7)	51	3
California	42,000	40,000	145,000	897,000	28,500	5.9	39,300	8.9	46,200	10.0	56	15
Colorado	13,800	10,900	45,200	217,000	8,100	(9.1)	13,300	15.3	14,200	2.6	38	6
Connecticut	2,000	1,700	6,510	32,400	1,200	40.5	2,500	28.0	2,300	13.2	26	5
Delaware 6/	--	--	2,100	10,800	--	--	--	--	--	--	--	--
Florida	6,800	6,700	27,200	114,000	6,600	0.7	7,100	1.0	6,800	(1.2)	57	8
Georgia	1,900	1,600	7,200	30,100	1,800	4.7	1,900	(6.2)	2,000	6.8	40	7
Hawaii 5/	--	--	508	5,840	--	--	--	--	--	--	--	--
Idaho	5,800	3,500	15,500	48,200	1,900	(2.2)	4,700	10.1	6,100	6.2	23	4
Illinois	10,200	9,500	34,100	147,000	3,900	(1.1)	8,500	(17.8)	9,700	(5.3)	48	9
Indiana	8,600	6,400	29,500	126,000	6,000	4.8	8,300	(5.7)	8,100	(6.2)	51	7
Iowa	4,900	3,600	13,500	60,600	1,200	10.8	4,000	0.9	3,800	(23.5)	27	5
Kansas	3,600	2,900	10,800	31,300	2,000	15.9	3,100	16.7	2,700	(25.6)	21	3
Kentucky	2,700	2,500	9,620	32,400	1,600	(1.9)	2,700	(4.3)	2,900	6.2	19	3
Louisiana	4,000	3,900	16,500	81,700	3,700	(5.8)	4,100	(10.7)	3,900	(3.9)	41	4
Maine	3,400	2,300	8,570	40,300	500	(13.0)	2,500	5.7	3,700	11.2	20	4
Maryland	2,400	2,300	8,970	56,500	2,500	29.3	3,200	34.9	3,100	30.9	49	6
Massachusetts	3,500	3,400	12,700	75,200	2,100	3.1	3,500	(7.3)	4,100	18.6	20	6
Michigan	25,100	19,000	70,200	245,000	7,000	5.9	22,700	16.4	25,300	0.8	36	10
Minnesota	15,400	8,700	37,300	142,000	1,500	(3.0)	13,000	11.3	16,800	9.0	27	10
Mississippi	4,300	2,300	12,100	58,900	2,100	0.3	3,300	0.0	3,100	(27.5)	49	6
Missouri	4,000	3,300	12,400	50,300	2,300	22.0	3,600	14.3	3,500	(12.0)	44	4
Montana 6/	--	--	12,000	50,700	--	--	--	--	--	--	--	--
Nebraska	4,200	2,300	12,000	40,800	1,700	23.1	4,500	11.4	4,800	12.5	24	5
Nevada	7,700	9,000	31,700	142,000	9,100	25.0	9,700	26.9	8,800	13.9	25	6
New Hampshire	3,000	1,800	7,950	36,700	1,100	(3.6)	2,000	0.2	3,100	1.7	36	5
New Jersey	4,700	4,400	16,500	91,500	3,100	1.3	3,500	(19.1)	4,400	(5.1)	28	5
New Mexico	2,500	3,300	10,600	53,000	2,300	7.2	2,800	8.7	3,200	26.8	40	4
New York	11,800	6,000	29,900	152,000	3,500	3.0	10,200	17.0	12,400	4.9	20	12
North Carolina	3,100	2,800	11,600	62,900	3,400	42.7	2,900	(12.9)	3,000	(2.0)	33	5
North Dakota 5/	--	--	11,700	33,000	--	--	--	--	--	--	--	--
Ohio	17,800	13,700	52,000	257,000	7,000	11.8	13,400	(5.6)	15,900	(10.6)	44	14
Oklahoma	3,000	2,600	10,200	41,200	2,600	13.5	2,700	18.5	2,900	(0.3)	43	6
Oregon	5,400	3,700	16,900	105,000	2,600	(13.0)	5,100	5.3	5,100	(6.0)	26	3
Pennsylvania	6,600	4,300	18,600	115,000	2,100	19.5	6,100	4.1	6,500	(1.3)	32	10
Rhode Island 6/	--	--	1,310	9,900	--	--	--	--	--	--	--	--
South Carolina	2,700	1,600	9,660	38,200	2,400	(11.8)	2,800	(0.4)	2,800	5.9	47	4
South Dakota	4,600	2,900	12,400	45,600	1,700	42.7	5,800	60.0	5,400	15.7	12	5
Tennessee	3,500	1,600	9,640	53,100	1,800	12.8	3,000	0.2	2,700	(23.9)	34	5
Texas	19,700	18,900	77,100	373,000	23,600	25.0	25,200	28.1	26,300	33.7	25	9
Utah	12,900	7,300	39,500	125,000	4,700	(46.6)	11,200	7.0	9,700	(24.9)	30	4
Vermont	1,400	1,200	4,430	18,800	300	(23.9)	1,100	(27.2)	1,400	4.5	20	4
Virginia	2,600	2,500	11,300	53,800	2,500	(11.8)	3,400	2.2	3,100	19.1	61	8
Washington	13,400	10,900	43,800	227,000	8,500	7.3	14,100	20.9	13,500	0.8	34	9
West Virginia	700	400	1,850	9,030	200	(4.9)	500	(20.0)	500	(23.9)	105	5
Wisconsin	12,500	9,200	35,700	128,000	3,900	19.4	11,800	10.1	12,100	(2.6)	29	11
Wyoming	900	1,500	4,410	17,200	1,200	2.5	900	7.5	800	(11.3)	13	3
Total	XX	XX	1,110,000	5,250,000	XX	XX	XX	XX	XX	XX	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding and differences between projected totals by States.

3/ All percentage changes are calculated using unrounded totals.

4/ Number of companies reporting for the quarterly survey.

5/ State not included in quarterly survey.

6/ Owing to a low number of reporting companies, no production estimates by quarters were generated.

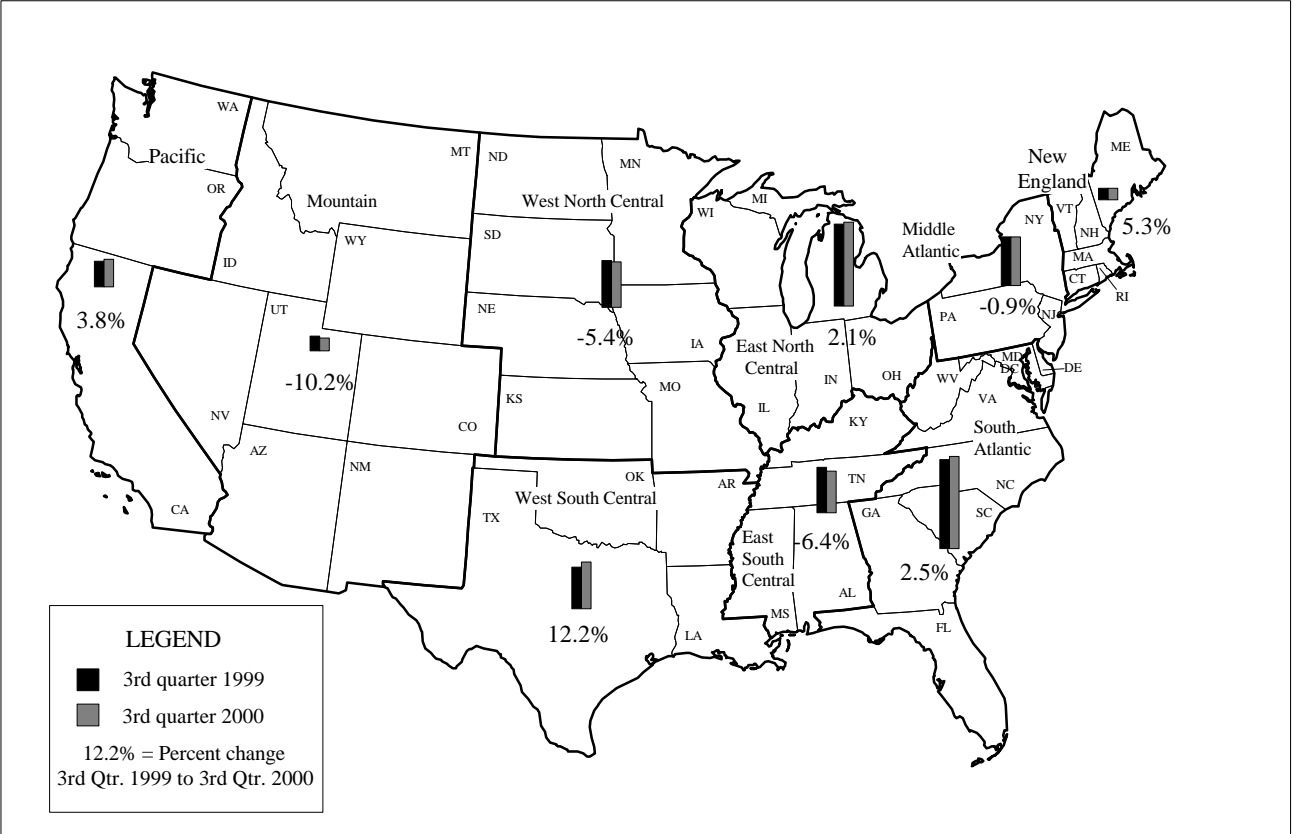


Figure 1 - Third quarter crushed stone production by geographic division

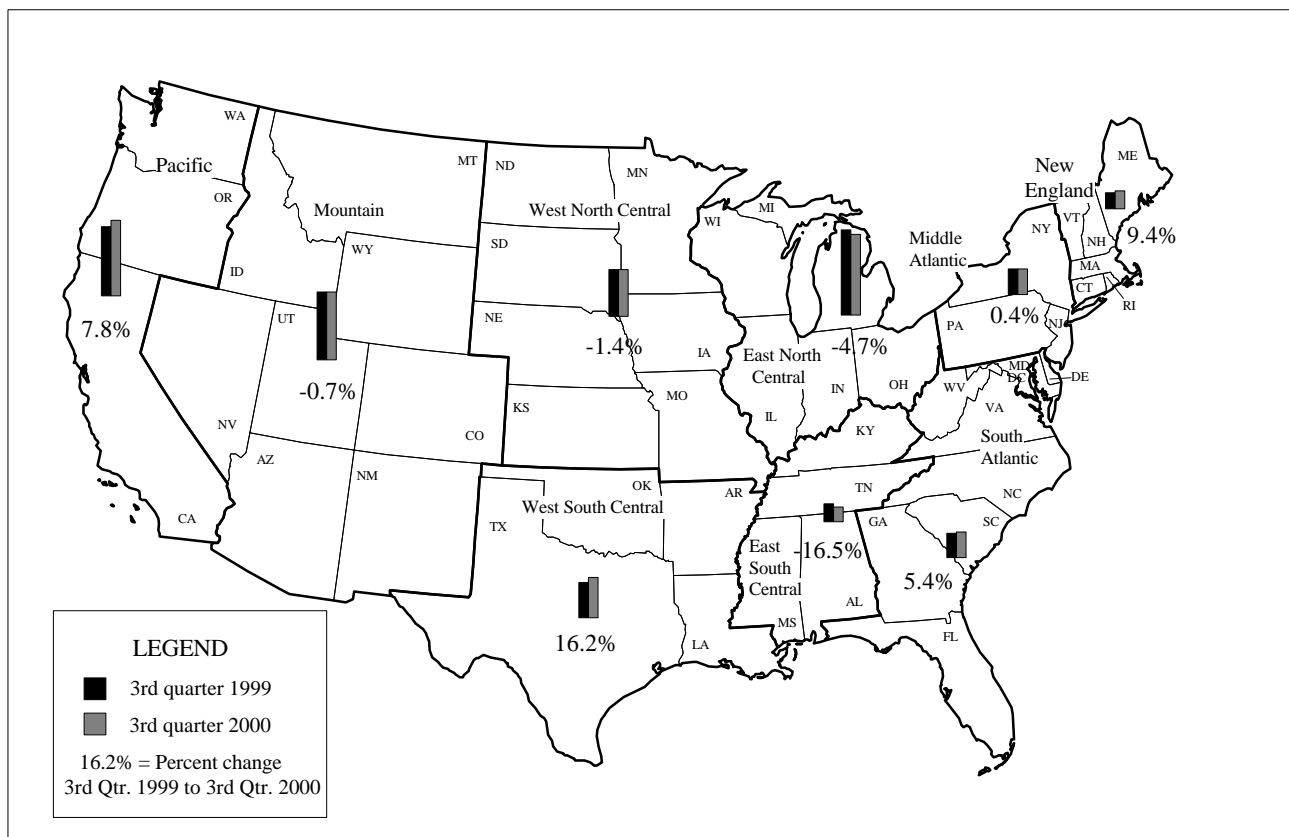


Figure 2 - Third quarter sand and gravel production by geographic division